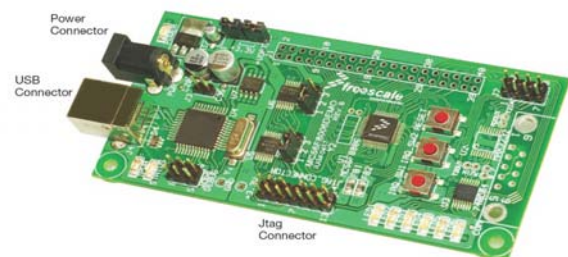




Freescal - MC56F8006DEMO-T - MC56F8006DEMO-T Demo Board

Product Overview:

MC56F8006DEMO-T is a cost-effective board targeting quick digital signal controller (DSC) evaluation, demonstration and debugging of the Freescale MC56F8006VLF digital signal controller. The board is equipped to handle USB communication right out of the box. MC56F8006 demo board has a series of 6 leds connected to PWM channels in order to monitor signals and has a Reset and 2 IRQ switches.



Kit Contents:

The MC56F8006DEMO-T contains the hardware essentials you will need to use it. The items in the Development Kit and their use are as follows.

- DVD Getting Started With MC56F8006/2
 - Free CodeWarrior Development Studio for 56F800/E DSC, Special Edition (32KB code size limit)
 - Device and Board Resources
 - 7 different MC56F8006 Demo Labs including LED flashing demonstration, USB Serial , Freemaster and FIR Labs.
- USB TAP
- USB Cable
- MC56F8006DEMO-T Quick Start Guide
- Freescale Warranty Card

Key Features:

- Complete pin-out available including a 40 pin header compatible with all 56F80xx boards

- Supply voltage options from USB connector, direct power supply in J1 and using standard power jack
- MC56F8006 Demo board with USB connectivity
- JTAG control and debug of MC56F8006
- BDM control and debug of MC9S08JM60
- Serial Communications port ready for RS-232
- 6 LEDs, connected to PWM channels

Ordering Information:

Products:

| Part Number | Manufacturer | Farnell P/N | Newark P/N |
|-----------------|--------------|-------------|------------|
| MC56F8006DEMO-T | Freescale | 1748989 | 40P5047 |

Associated Products:

| Part Number | Manufacturer | Description | Farnell P/N | Newark P/N |
|-------------------|--------------|--|-------------|------------|
| MC56F8006VLF | Freescale | Digital Signal Controller IC | 1718358 | 11R0875 |
| MC9S08JM60CGT | Freescale | MCU, 8-BIT, S08, 60K FLASH, LQFP48 | 1562864 | 94M8314 |
| USBMLCF | Freescale | USB ColdFire Multilink | 1535884 | 01M6486 |
| MAX3232CDBE4 | TI | True RS-232 Transceivers | 1287435 | 26M0603 |
| SN74LVC125AD | TI | Quad buffer driver | 1102975 | 94B6303 |
| MIC2026-1BM | MICREL | Dual-Channel Power Distribution Switch | 4461964 | 05C4401 |
| LM1117DT-ADJ/NOPB | NS | Linear Voltage Regulator IC | 1364485 | 41K3426 |
| MC56F8006VLF | Freescale | Digital Signal Controller IC | 1718358 | 11R0875 |
| MC9S08JM60CLD | Freescale | 8-Bit Microcontroller IC | 1562864 | 54M7190 |

Similar Products:

| Part Number | Manufacturer | Description | Support Device | Farnell P/N | Newark P/N |
|-----------------------|--------------|---------------------|----------------|-------------|------------|
| MC56F8006DEMO | Freescale | MC56F8006 DSC Board | MC56F8006 | 1748988 | 40P5046 |
| MC56F8006DEMO-T-PROMO | Freescale | MC56F8006 DSC Board | MC56F8006 | 1758255 | 33R0842 |

Document List:

Datasheets:

| Part Number | Description | Size |
|-------------|--|--------|
| MAX3232 | 3.0V to 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceivers | 272KB |
| 74LVC125 | 74LVC125 Quad buffer driver | 108KB |
| MIC2026 | Dual-Channel Power Distribution Switch | 180KB |
| LM1117 | LM1117 800mA Low-Dropout Linear Regulator | 532KB |
| MC56F8006 | MC56F8006 DSC Datasheet | 1.82MB |
| MC9S08JM60 | MC9S08JM60 Datasheet | 10.6MB |

Application Notes:

| File Name | Size |
|--|--------|
| Implementing a Modular High Brightness RGB LED Network | 1.82MB |
| MC56F8006DEMO User Guide | 3.19MB |
| Single Phase Two-Channel Interleaved PFC Converter Using MC56F8006 | 344KB |

Hardware & Software:

| File Name | Size |
|--|--------|
| MC56F8006DEMO_FFT_lab | 716KB |
| MC56F8006DEMO_FIR_lab | 2.17MB |
| MC56F8006DEMO_Freemaster_lab | 2.29MB |
| MC56F8006DEMO_hall_motor_lab | 796KB |
| MC56F8006DEMO_LED_lab | 232KB |
| MC56F8006DEMO_PGA_lab | 1MB |
| MC56F8006DEMO_serial_lab | 3.46MB |
| MC56F8006DEMOLAB | 64KB |